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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,718	05/24/2004	Ling-Yi Liu	IFTP0003USA	3717
· mn	7590 01/11/200 RICA INTELLECTUA	EXAMINER		
P.O. BOX 506			UNELUS, ERNEST	
MERRIFIELD, VA 22116			ART UNIT	PAPER NUMBER
			2181	
				·
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
. 31 D	31 DAYS 01/11/2007 PAPER		ER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Commence		10/709,718	LIU ET AL.			
•	Office Action Summary	Examiner	Art Unit			
		Ernest Unelus	2181			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	•					
1)	Responsive to communication(s) filed on 24 Ma	av 2004				
2a)□	This action is FINAL . 2b) ☐ This action is non-final.					
, 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
• "	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) <u>1-94</u> is/are pending in the application.	•				
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
·	Claim(s) is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) <u>1-94</u> are subject to restriction and/or e	election requirement.				
,	on Papers	·				
	·	_				
· <u> </u>	The specification is objected to by the Examine The drawing(s) filed on 24 May 2004 is/are: a)	<u> </u>	by the Evaminer			
10)⊠ The drawing(s) filed on <u>24 May 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
·		animor. Note the attached Offic	C7 (011011 01 101111 7 1 0 102.			
Priority u	nder 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received FRITZ FLEMING						
Attachment	t(s)	SUPERV TECH	ISORY PATENT EXAMINER INOLOGY CENTER 2100			
1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summar Paper No(s)/Mail to 5) Notice of Informal	Date			
	Paper No(s)/Mail Date 6) Other:					

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-44, and 83-94, drawn to a storage virtualization computer system, classified in class 710, subclass 5.
- II. Claims 45-82, drawn to an external storage virtualization controller, classified in class 710, subclass 74.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars; for example, the combination claim does not recite the central processing circuitry of the storage virtualization subsystem. The subcombination, the storage virtualization subsystem, has separate utility such as placing a plurality of Storage Virtualization controllers configured redundantly so that should one controller fail or malfunction, another controller will takeover all the operations originally performed by the failed or malfunctioned controller.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an

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election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Contact info

If attempts to reach the above noted Examiner by telephone is unsuccessful, the Examiner's supervisor, Mr. Fritz M. Fleming, can be reached at the following telephone number: Area Code (571) 272-4145.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained

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from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

December 27, 2006

9197 (toll-free).

Ernest Unelus Examiner Art Unit 2181

FRITZFLEMING SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100